

What is claimed is:

1. Seed of maize inbred line designated PHA9G, representative seed of said line having been deposited under ATCC Accession No. PTA-XXXX.
2. A maize plant, or a part thereof, produced by growing the seed of claim 1.
3. The maize plant of claim 2 wherein said plant has been detasseled.
- 5 4. A tissue culture of regenerable cells produced from the plant of claim 2.
5. Protoplasts produced from the tissue culture of claim 4.
- 10 6. The tissue culture of claim 4, wherein cells of the tissue culture are from a tissue selected from the group consisting of leaf, pollen, embryo, root, root tip, anther, silk, flower, kernel, ear, cob, husk and stalk.
7. A maize plant regenerated from the tissue culture of claim 6, said plant having  
15 all the morphological and physiological characteristics of inbred line PHA9G, representative seed of said line having been deposited under ATCC Accession No. PTA-XXXX.
8. A method for producing an F1 hybrid maize seed, comprising crossing the  
20 plant of claim 2 with a different maize plant and harvesting the resultant F1 hybrid maize seed.
9. A method of producing a male sterile maize plant comprising transforming the maize plant of claim 2 with a nucleic acid molecule that confers male sterility.
- 25 10. A male sterile maize plant produced by the method of claim 9.

11. A method of producing an herbicide resistant maize plant comprising transforming the maize plant of claim 2 with a transgene that confers herbicide resistance.

5 12. An herbicide resistant maize plant produced by the method of claim 11.

13. The maize plant of claim 12, wherein the transgene confers resistance to an herbicide selected from the group consisting of: imidazolinone, sulfonylurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

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14. A method of producing an insect resistant maize plant comprising transforming the maize plant of claim 2 with a transgene that confers insect resistance.

15. An insect resistant maize plant produced by the method of claim 14.

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16. The maize plant of claim 15, wherein the transgene encodes a *Bacillus thuringiensis* endotoxin.

17. A method of producing a disease resistant maize plant comprising  
20 transforming the maize plant of claim 2 with a transgene that confers disease resistance.

18. A disease resistant maize plant produced by the method of claim 17.

19. A method of producing a maize plant with decreased phytate content comprising transforming the maize plant of claim 2 with a transgene encoding phytase.

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20. A maize plant with decreased phytate content produced by the method of claim 19.

21. A method of producing a maize plant with modified fatty acid metabolism or modified carbohydrate metabolism comprising transforming the maize plant of claim 2 with a transgene encoding a protein selected from the group consisting of stearyl-ACP desaturase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme.

22. A maize plant produced by the method of claim 21.

23. The maize plant of claim 22, wherein the transgene confers a trait selected from the group consisting of waxy starch and increased amylose starch.

24. A method of introducing a desired trait into maize inbred line PHA9G comprising:

(a) crossing PHA9G plants grown from PHA9G seed, representative seed of which has been deposited under ATCC Accession No. PTA-XXXX, with plants of another maize line that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance, disease resistance and waxy starch;

(b) selecting F1 progeny plants that have the desired trait to produce selected F1 progeny plants;

(c) crossing the selected progeny plants with the PHA9G plants to produce backcross progeny plants;

(d) selecting for backcross progeny plants that have the desired trait and physiological and morphological characteristics of maize inbred line PHA9G listed in Table 1 to produce selected backcross progeny plants; and

(e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of maize inbred line PHA9G listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

25. A plant produced by the method of claim 24, wherein the plant has the desired trait and all of the physiological and morphological characteristics of maize inbred line PHA9G listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

26. The plant of claim 25, wherein the desired trait is herbicide resistance and the resistance is conferred to an herbicide selected from the group consisting of: imidazolinone, sulfonylurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

27. The plant of claim 25, wherein the desired trait is insect resistance and the insect resistance is conferred by a transgene encoding a *Bacillus thuringiensis* endotoxin.

28. The plant of claim 25, wherein the desired trait is male sterility and the trait is conferred by a cytoplasmic nucleic acid molecule that confers male sterility.

29. A method of modifying fatty acid metabolism, phytic acid metabolism or carbohydrate metabolism in maize inbred line PHA9G comprising:

(a) crossing PHA9G plants grown from PHA9G seed, representative seed of which has been deposited under ATCC Accession No. PTA-XXXX, with plants of another maize line that comprise a nucleic acid molecule encoding or inhibiting a polypeptide selected from the group consisting of phytase, stearyl-ACP desaturase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme;

(b) selecting F1 progeny plants that have said nucleic acid molecule to produce selected F1 progeny plants;

(c) crossing the selected progeny plants with the PHA9G plants to produce backcross progeny plants;

(d) selecting for backcross progeny plants that have said nucleic acid molecule and physiological and morphological characteristics of maize inbred line PHA9G listed in Table 1 to produce selected backcross progeny plants; and

(e) repeating steps (c) and (d) three or more times in succession to produce  
5 selected fourth or higher backcross progeny plants that comprise said nucleic acid molecule and have all of the physiological and morphological characteristics of maize inbred line PHA9G listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

10 30. A plant produced by the method of claim 29, wherein the plant comprises the nucleic acid molecule and has all of the physiological and morphological characteristics of maize inbred line PHA9G listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

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